## Bulk Density of Extruded Potato Sticks

Purpose: Test the effects of processing aids (*Nu-RICE*® vs. Myvaplex®) on bulk

density and shape, in potato sticks.

Equipment: American Extrusion Advantage Series

Screw Speed 250-350 RPM

Processing

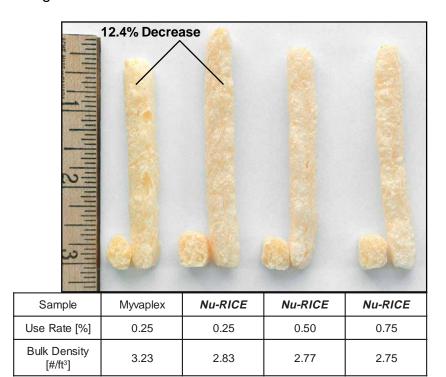
Aids:

**Nu-RICE®** Emulsifier and Myvaplex®

Formulation: Corn Grits 70%

Potato 30% Moisture 17.5%

Processing Aid 0.25% - 2.0%



Observations: There was a significant visible expansion and length difference between

the *Nu-RICE*® Emulsifier and Myvaplex® samples.

Conclusion: The *Nu-RICE®* Emulsifier can be used anywhere from low to high rates

(as needed) and provide lower bulk density than Myvaplex<sup>®</sup>. At equal use rates of the processing aid, the *Nu-RICE*<sup>®</sup> Emulsifier sample was 12.4% lower in bulk density than the Myvaplex<sup>®</sup> (sample 1 vs. 2).

Cost Savings: The *Nu-RICE*® Emulsifier allows the snack maker to provide 12-15%

more volume per unit to the consumer, or the ability to decrease the weight and provide the same volume. This can create a 10-12% cost

savings!

**Nu-RICE®** Decreased Bulk Density by 12-15%